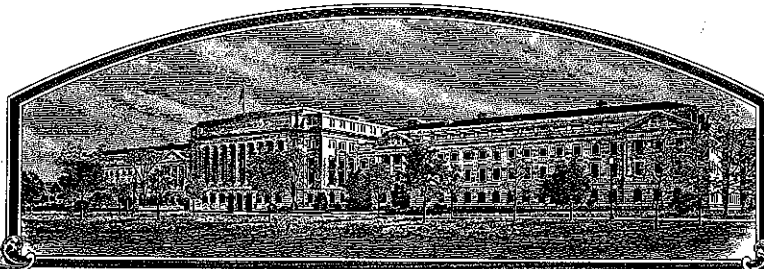


No.

9900259



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

*Enza Zaden Beheer B.V.*

Whereas THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC FURNISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE SAID APPLICANT(S) TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED IN THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Ponderosa'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-sixth day of July, in the year two thousand and five.

Attest:

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a).

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

# APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)

Enza Zaden Beheer B.V.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER

Exp. 5007

3. VARIETY NAME

Ponderosa

4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)

1352 Burton Avenue  
Salinas, California 93901

5. TELEPHONE (include area code)

(831) 754-2300

6. FAX (include area code)

(831) 754-2975

## FOR OFFICIAL USE ONLY

PVPO NUMBER

9900259

DATE

4/19/99

FILING AND EXAMINATION FEE

2450

DATE

4/19/99

CERTIFICATION FEE

432

DATE

5/07/05

7. GENUS AND SPECIES NAME

Lactuca sativa

8. FAMILY NAME (Botanical)

Compositae

9. CROP KIND NAME (Common name)

Lettuce - Iceberg

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name)

Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION

California

12. DATE OF INCORPORATION

1986

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

Mel Holland  
COASTAL SEEDS, INC.  
P.O. Box 866  
San Juan Bautista, California 95045

14. TELEPHONE (include area code)

(831) 623-4644

15. FAX (include area code)

(831) 623-1746

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)

- a. ☒ Exhibit A. Origin and Breeding History of the Variety  
b. ☒ Exhibit B. Statement of Distinctness  
c. ☒ Exhibit C. Objective Description of the Variety  
d. ☒ Exhibit D. Additional Description of the Variety  
e. ☒ Exhibit E. Statement of the Basis of the Applicant's Ownership  
f. ☒ Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public repository)  
g. ☒ Filing and Examination Fee (\$2,460), made payable to "Treasurer of the United States" (Mail to PVPO)

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)  
☐ YES (If "yes," answer items 18 and 19 below) ☒ NO (If "no," go to item 20)

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☐ YES ☐ NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?

☒ YES (If "yes," give names of countries and dates) ☐ NO

U.S. - 04/20/98

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT (Owner(s))

SIGNATURE OF APPLICANT (Owner(s))

NAME (Please print or type)

David W. Duke

NAME (Please print or type)

CAPACITY OR TITLE

President

DATE

4/16/99

CAPACITY OR TITLE

DATE

9900259

## INSTRUCTIONS

**GENERAL:** To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed Exhibits A, B, C, E; (3) at least 2,500 viable untreated seeds, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture vial be deposited and maintained in a public repository prior to issuance of a certificate; (4) check drawn on a U.S. bank for \$2,400 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (*See Section 97.175 of the Regulations and Rules of Practice.*) Partial applications will be held in the PVPO for not more than 30 days, then returned to the applicant unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Blvd., Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self-explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the Certificate.

Plant Variety Protection Office  
Telephone: (301) 504-5518

### ITEM

- 16a. Give:
  - (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
  - (2) the details of subsequent stages of selection and multiplication;
  - (3) evidence of uniformity and stability; and
  - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 16b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences;
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 16c. Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 16d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 16e. Section 52(4) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employee of the breeder, the owner through purchase or inheritance, etc.
17. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant may NOT reverse this affirmative decision after the variety has been sold and so labelled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (*See P.L. 103-349 for additional information.*)
20. See Sections 41, 42, and 43 of the Act and Section 97.175 of the regulations for eligibility requirements.

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment is specified in Section 97.175 of the regulations. (*See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.*)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Washington, DC 20260; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 0581-0056), Washington, DC 20503.

## EXHIBIT A

### Origin and Breeding History of the Variety

#### **Lettuce: Ponderosa**

Ponderosa originated from a cross made in 1992 between two Coastal Seeds, Inc. breeding lines: XP 64-1-2A-2 and XP 68-4-1L-4. XP64-1-2A-2A-2 was developed from a cross of breeding line XP15-3 (Greenlake x Salinas), a corky root resistant line, and Alpha DMR, a variety resistant to downy mildew (*Bremia lactucae*) pathotypes I, IIA, and III. XP64-1-2A-2 is the progenitor of the variety 'Bronco' with similar size and type and is resistant to both corky root and downy mildew pathotypes I, IIA, III. XP68-4-1L-4 was developed from a cross of breeding line XP19 (Don Juan x Pacific), a F<sub>1</sub> line with resistant genes for lettuce mosaic virus and big vein virus, and the variety Alpha DMR. XP68-4-1L-4 is resistant to lettuce mosaic virus and downy mildew pathotypes I, IIA and III.

The primary objective of the cross, designated 3x534 was to develop a variety with larger size than Alpha DMR and resistant to corky root disease. The pedigree method of plant breeding employing single plant selection was used in the development of Ponderosa. Screening for disease resistance was utilized in combination with the selection process.

The stages of selection, disease screening and seed multiplication involved in the development of Ponderosa are as follows:

1. Cross made and F<sub>1</sub> increased in greenhouse.
2. F<sub>2</sub> generation grown on Coastal Seed trial grounds located in San Juan Bautista, California, area. Four larger size plants with good heading ability were selected as single plant selections.
3. F<sub>3</sub> generation grown in trials located on big vein virus infested ground in the Salinas Valley. Six single plant selections were made with less big vein symptoms and larger size than Alpha DMR.
4. F<sub>4</sub> generation grown in trials located on corky root disease infested ground. The line was segregating for corky root resistance. Two single plant selections were made based on resistance to corky root, larger head size and good heading ability. The two single plant selections were designated 3x534-1C6A and B.
5. F<sub>5</sub> generation. 3x534-1C6A and B were evaluated in early spring trials grown on the San Juan Bautista trial grounds. Selection 3x534-1C6A was very uniform for type and was larger in size compared to Alpha DMR. A decision

was made to make a small seed increase of 3x534-1C6A in the company's screenhouse located on the trial grounds.

6. The seed increase ( $F_6$  generation was designated Exp.5007 and screened for corky root resistance with inoculum obtained from the Plant Pathology Department, University of California at Davis. Exp.5007 tested 100% corky root resistant. Exp. 5007 was also screened for lettuce mosaic virus resistance and was shown to be resistant. The LMV inoculum for disease screening was obtained from the USDA Research Station in Salinas, California.
7. Exp.5007 was evaluated in extensive trial and field plantings in 1996 and 1997 in the lettuce growing areas of California. Field plantings on corky root infested ground confirmed its resistance to the disease. Exp. 5007 was uniform and stable for type with no observed variants and a commercial seed increase was decided for 1997.
8. A commercial seed increase as Ponderosa using Exp.5007 for stock seed was made in Australia. The seed increase was screened for corky resistance and shown to be resistant. Trial and field plantings demonstrated that Ponderosa was uniform and stable. No variants were observed.
9. In 1998, a commercial seed increase was grown in California using the Australia production seed as stock seed. Trial and field plantings confirmed that Ponderosa was uniform and stable. No variants were observed. Disease screening demonstrated that Ponderosa was uniform and stable for corky root resistance.

Ponderosa can be distinguished from the direct parent lines as follows:

1. XP64-1-2A-2: Ponderosa has smaller head size, shorter core length and is resistant to lettuce mosaic virus. XP64-1-2A-2 is susceptible to lettuce mosaic virus.
2. XP68-4-1L-4: Ponderosa is corky root resistant while XP68-4-1L-4 is susceptible.

Ponderosa has been evaluated in extensive trial and field plantings in the lettuce growing areas of California. Ponderosa has maintained a high degree of uniformity and stability for type from the  $F_5$  through three generations of seed increase. No variants have been observed. Ponderosa has also been uniform and stable for corky root resistance from the  $F_5$  through three generations of seed increase.

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**Exhibit B:**

Ponderosa is most similar to 'Alfa DMR' and 'Bronco'.

Ponderosa is resistant to Corky Root rot and Lettuce Mosaic Virus (LMV). Genetic resistance to Corky Root rot is inherited as a homozygous recessive trait. Genetic resistance to Lettuce Mosaic Virus is inherited as a homozygous recessive trait. Ponderosa is distinct from 'Alpha DMR' PVP # 9000055 in having resistance to Corky Root rot and LMV where 'Alpha DMR' is susceptible to both diseases. Ponderosa is distinct from 'Bronco' PVP # 9500116 in having resistance to LMV where 'Bronco' is susceptible to LMV.

RAD  
4/11/05

OBJECTIVE DESCRIPTION OF VARIETY  
LETTUCE *Lactuca sativa*

NAME OF APPLICANT (S)

COASTAL SEEDS, INC. Enza Zaden Beheer B.V.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

1352 Burton Avenue

Salinas, California 93901

FOR OFFICIAL USE ONLY

PVPO NUMBER

9900259

VARIETY NAME

EXPERIMENTAL DESIGNATION

Place numbers in the boxes for the characters which best describe this variety. Measured data should be the mean of an appropriate number (at least 10) of well spaced plants. Royal Horticultural Society or any recognized color standard may be used to determine plant colors.

The location of the test area is:

Salinas and San Juan Bautista, CA

Color System Used:

RHS 146C - Salinas and San Juan Bautista, CA

1. PLANT TYPE: (See list of suggested check varieties page 4.)

06

01=Cutting/Leaf

02=Butterhead

03=Bibb

04=Cos or Romaine

05=Great Lakes Group

06=Vanguard Group

07=Imperial Group

08=Eastern (Ithaca) Group

09=Stem

10=Latin

11=OTHER

2. SEED:

COLOR

1=White (Silver Gray)

2=Black (Gray Brown)

3=Brown (Amber)

LIGHT DORMANCY

1=Light Required

2=Light Not Required

HEAT DORMANCY

1=Susceptible

2=Not Susceptible

3. COTYLEDON TO FOURTH LEAF STAGE: NOTE: Provide a color photograph or photocopy of the fourth leaf from 20 day old seedling grown under optimal conditions.

2

SHAPE OF COTYLEDONS:

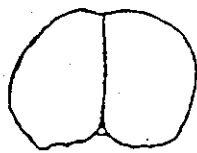
1=Broad

2=Intermediate

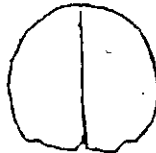
3=Spatulate

4

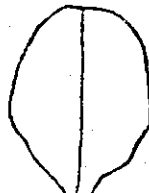
SHAPE OF FOURTH LEAF:



1



2



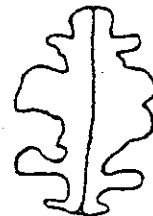
3



4



5



6

17

LENGTH/WIDTH INDEX OF FOURTH LEAF: L/W x 10

1

APICAL MARGIN:

1=Entire

2=Crenate/Gnawed

3=Finely Dentate

4=Moderately Dentate

5=Coarsely Dentate

6=Incised

7=Lobed

8=OTHER (specify)

4

BASAL MARGIN:

2

UNDULATION:

1=Flat

2=Slight

3=Medium

4=Marked

4

GREEN COLOR:

1=Yellow Green

2=Light Green

3=Medium Green

4=Dark Green

5=Blue Green

6=Silver Green

7=Gray Green

ANTHOCYANIN:

1

DISTRIBUTION:

1=Absent

2=Margin Only

3=Spotted

4=Throughout

5=OTHER (specify)

/

CONCENTRATION:

1=Light

2=Moderate

3=Intense

1

ROLLING:

1=Absent

2=Present

1

CUPPING:

1=Uncupped

2=Slight

3=Markedly

1

REFLEXING:

1=None

2=Apical Margin

3=Lateral Margins

4. MATURE LEAVES (observe harvest-mature outer leaves):

NOTE: Provide color photo of harvest-mature leaves which accurately shows color and margin characteristics.

MARGIN:

2	INCISION DEPTH: (deepest penetration of the margin)	1=Absent/Shallow (Dark Green Boston)	2=Moderate (Vanguard)	3=Deep (Great Lakes 659)
4	INDENTATION: (finest divisions of the margin)	1=Entire (Dark Green Boston)	3=Deeply Dentate (Great Lakes 659)	5=OTHER (specify)
		2=Shallowly Dentate (Great Lakes 65)	4=Crenate (Vanguard)	
2	UNDULATION OF THE APICAL MARGIN:	1=Absent/Slight (Dark Green Boston)	2=Moderate (Vanguard)	3=Strong (Great Lakes 659)
4	GREEN COLOR:	1=Very Light Green (Bibb)	3=Medium Green (Great Lakes)	5=Very Dark Green
		2=Light Green (Minetto)	4=Dark Green (Vanguard)	6=OTHER
ANTHOCYANIN (grown at or below 10 C):				
1	DISTRIBUTION:	1=Absent	3=Spotted (Calif. Cream Butter)	5=OTHER (specify)
		2=Margin Only (Big Boston)	4=Throughout (Prize Head)	
-	CONCENTRATION:	1=Light (Iceberg)	2=Moderate (Prize Head)	3=Intense (Ruby)
2	SIZE:	1=Small	2=Medium	3=Large
2	GLOSSINESS:	1=Dull (Vanguard)	2=Moderate (Salinas)	3=Glossy (Great Lakes)
2	BLISTERING:	1=Absent/Slight (Salinas)	2=Moderate (Vanguard)	3=Strong (Prize Head)
2	LEAF THICKNESS:	1=Thin	2=Intermediate	3=Thick
1	TRICHOMES:	1=Absent (smooth)	2=Present (spiny)	

5. PLANT (at market stage. Choose a comparison variety appropriate for this type.):

SPREAD OF FRAME LEAVES:

4 3 cm This Variety 4 7 cm Bronco (specify comparison variety)

HEAD DIAMETER (market trimmed with single cap leaf):

1 6 cm This Variety 1 9 cm Bronco (specify comparison variety)

3 HEAD SHAPE: 1=Flattened 2=Slightly Flattened 3=Spherical 4=Elongate 5=Non-Heading 6=OTHER

2 HEAD SIZE CLASS: 1=Small 2=Medium 3=Large

2 4 HEAD COUNT PER CARTON

HEAD WEIGHT:

8 5 3 g This Variety 7 8 9 g Bronco (specify comparison variety)

3 HEAD FIRMNESS: 1=Loose 2=Moderate 3=Firm 4=Very Firm

6. BUTT (bottom of market-trimmed head):

2 SHAPE: 1=Slightly Concave 2=Flat 3=Rounded

1 MIDRIB: 1=Flattened (Salinas) 2=Moderately Raised 3=Prominently Raised (Great Lakes 659)

7. CORE (stem of market-trimmed head):

3 3 mm Diameter at base of head

4 8 Ratio of head diameter/core diameter

Core height from base of head to apex:

4 3 mm This Variety 5 3 mm Bronco (specify comparison variety)

8. BOLTING (Give First Water Date 4/25/98):

\* see comments

Number of days from First Water Date to seed stalk emergence (summer conditions):

6 3 This Variety 5 8 Bronco (specify comparison variety)

3 BOLTING CLASS: 1=Very Slow 2=Slow 3=Medium 4=Rapid 5=Very Rapid

Height of mature seed stalk:

1 2 8 cm This Variety 1 4 2 cm Bronco (specify comparison variety)



46

Spread of Bolter Plant (at widest point):

cm This Variety

53

cm

Bronco

(specify comparison variety)

9900259

2

BOLTER LEAVES:

1=Straight

2=Curved

2

MARGIN:

1=Entire

2=Dentate

2

COLOR:

1=Light Green

2=Medium Green

3=Dark Green

BOLTER HABIT:

2

TERMINAL  
INFLORESCENCE:

1=Absent

2=Present

2

LATERAL SHOOTS:  
(above head)

1=Absent

2=Present

1

BASAL SIDE SHOOTS:

1=Absent

2=Present

## 9. MATURITY (earliness of harvest-mature head formation):

NOTE: Complete this section for at least one season.

SEASON	Applic. 1/ #of days	Check 2/ #of days	CHECK VARIETY 2/
Spring	7 6	8 1	Bronco
Summer	6 8	7 1	Bronco
Fall	7 3	7 7	Bronco
Winter			

Give planting date(s), and location(s):

Spring March 15 - San Juan Bautista, CA

Summer July 2 - Salinas, CA &amp; San Juan Bautista, CA

Fall August 1 - Chualar, CA

Winter

1/ First water date to harvest.

2/ Fill in check variety name on the appropriate line.

## 10. ADAPTATION:

PRIMARY REGIONS OF ADAPTION (tested and proven adapted):

(0=Not tested

1=Not Adapted

2=Adapted)

0

Southwest (Calif., Ariz. desert)

2

West Coast

0

Northeast

0

Northcentral

0

Southeast

0

OTHER

SEASON:

2

Spring (area Salinas &amp; Santa Maria, CA

2

Fall (area Salinas &amp; Santa Maria, CA

2

Summer (area Salinas &amp; Santa Maria, CA

0

Winter (area

0

GREENHOUSE:

0=Not tested

1=Not Adapted

2=Adapted

1

SOIL TYPE:

1=Mineral

2=Organic

3=Both

VIRUS

- ☒ 2 Big Vein  
☒ 3 Lettuce Mosaic  
☐ 0 Cucumber Mosaic  
☐ 0 Broad Bean Wilt  
☐ 0 Turnip Mosaic  
☐ 0 Beet Western Yellows  
☐ 0 Lett. Infectious Yellows  
☐ 0 Other Virus \_\_\_\_\_

FUNGAL/BACTERIAL

- ☒ 1 Corky Root Rot (Pythium Root Rot)  
☐ 0 Downy Mildew (Races \_\_\_\_\_)  
☐ 0 Powdery Mildew  
☐ 0 Sclerotinia Rot  
☐ 0 Bacterial Soft Rot (Pseudomonas spp. & others)  
☐ 0 Botrytis (Gray Mold)  
☐ OTHER \_\_\_\_\_

INSECTS

- ☐ 0 Cabbage Loopers  
☐ 0 Root Aphids  
☐ 0 Green Peach Aphid  
☐ 0 Other Insect \_\_\_\_\_

PHYSIOLOGICAL/STRESS

- ☒ 5 Tipburn  
☒ 5 Heat  
☐ 0 Drought  
☐ 0 Cold  
☐ Salt  
☒ 5 Brown Rib (Rib Discoloration, Rib Blight)  
☐ OTHER \_\_\_\_\_

POST HARVEST

- ☒ 5 Pink Rib  
☒ 5 Russet Spotting  
☒ 5 Rusty Brown Discoloration  
☒ 5 Internal Rib Necrosis (Blackheart, Gray Rib, Gray Streak)  
☒ 5 Brown Stain

12. BIOCHEMICAL OR ELECTROPHORETIC MARKERS:

13. COMMENTS:

\* Section 8: Data collected at Lost Hills, CA in seed production field.

12:56 61 APR 19 99

USDA-AMS-RFPO

SUGGESTED CHECK VARIETIES

TYPE

- 1) CUTTING/LEAF  
 2) BUTTERHEAD  
 3) BIBB  
 4) COS, OR ROMAINE  
 5) GREAT LAKES GROUP  
 6) VANGUARD GROUP  
 7) IMPERIAL GROUP  
 8) EASTERN GROUP  
 9) STEM  
 10) LATIN

CHECK VARIETY

- SALAD BOWL  
 DARK GREEN BOSTON  
 BIBB  
 PARRIS ISLAND  
 GREAT LAKES 659-700  
 VANGUARD  
 VIVA  
 ITHACA  
 CELTUCE  
 MATCHLESS

9900259



Exhibit 16D: Ponderosa

4<sup>th</sup> True Leaf from 20 day Old Seedling

9900259

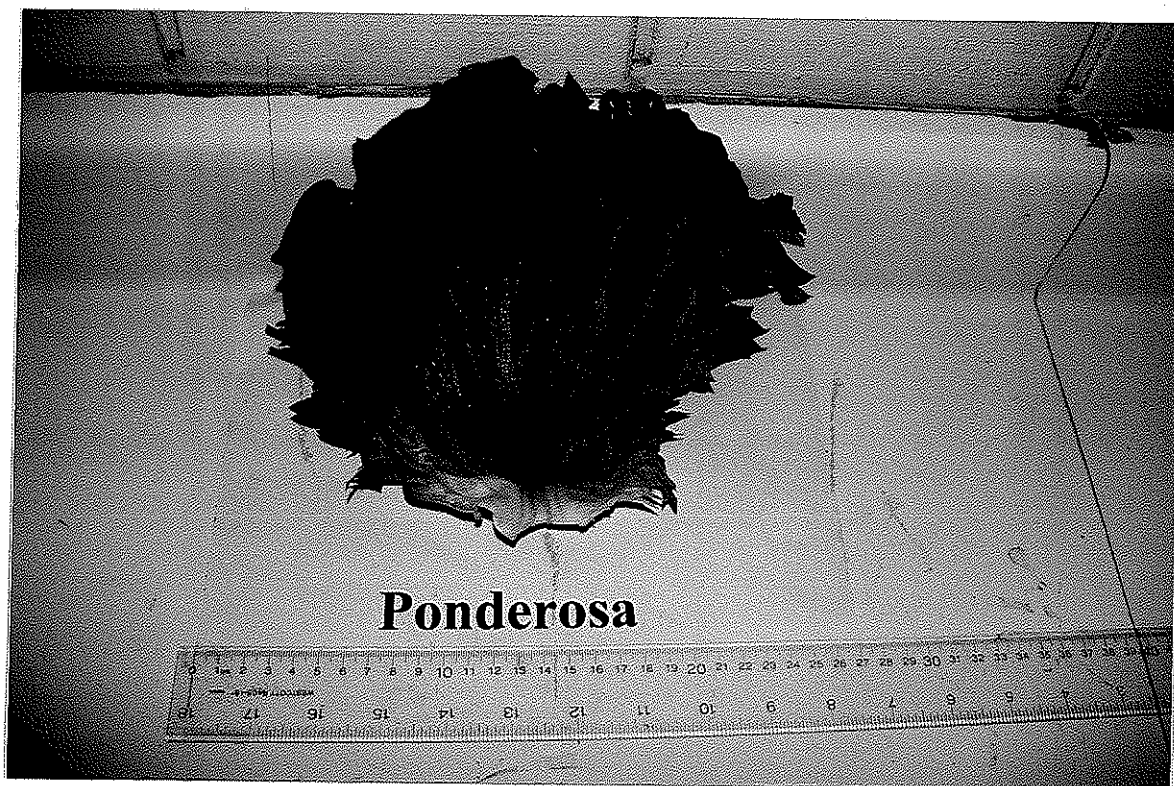


Exhibit 16D: Ponderosa

Mature Wrapper Leaf

**Exhibit D : Ponderosa****Results of Corky Root Screening on Lettuce Cultivars <sup>a, b</sup>****Corky Root Test No. 1 1999**

<b><u>Cultivar</u></b>	<b><u>Resistant</u></b>	<b><u>Susceptible</u></b>
Diamond	0	62
Ponderosa 1998 Production	32	0
Cowboy 1998 Production	28	0
Gladiator 1998 Production	29	0
Hearts Delight 1998 Production	32	0

**Corky Root Test No. 1 1997**

Green Towers	0	15
Bautista	17	0
Mardi Gras 1996 Stock Seed	17	0
3x534-1C6A (Exp. 5007)	16	0

**Corky Root Test No. 3 1997**

Diamond	0	30
Bronco	31	0
3x534-1C6A (Exp.5007)	17	0

<sup>a</sup> Tests were conducted under controlled conditions at Coastal Seeds, Inc. research facility near San Juan Bautista, California. All seedlings were inoculated twice and held at a constant temperature of 28 C.

<sup>b</sup> Unless noted otherwise all production lots were grown in California.

**Exhibit D - Ponderosa****Results of Lettuce Mosaic Virus Testing on Lettuce Cultivars <sup>a</sup>**

<b><u>Cultivar</u></b>	<b><u>Resistant</u></b>	<b><u>Susceptible</u></b>
Esmeralda	49	0
Bautista	55	0
Gladiator	57	0
Ponderosa	57	0
Medallion	54	0
Mardi Gras	0	58
Hearts Delight	0	56
Margarita	55	0
Desert Storm	59	0
Darkland Cos	0	53
Green Towers	0	53

<sup>a</sup> Tests conducted at Coastal Seeds, Inc. research facility at San Juan Bautista, California, from inoculum provided by USDA-ARS, Salinas, Ca.

## Exhibit D: Ponderosa

9900259

### Frame Width Data (cm)

Location: Salinas, California, 10/08/98

	Rep 1		Rep 2		Rep 3	
	Ponderosa	Bronco	Ponderosa	Bronco	Ponderosa	Bronco
1	43.0	45.0	44.0	46.0	45.0	45.0
2	44.0	49.0	43.0	47.0	45.0	45.0
3	45.0	47.0	45.0	46.0	44.0	46.0
4	44.0	45.0	44.0	47.0	42.0	45.0
5	42.0	44.0	44.0	48.0	41.0	43.0
6	43.0	46.0	44.0	45.0	42.0	46.0
7	42.0	46.0	43.0	47.0	40.0	44.0
8	40.0	46.0	44.0	46.0	42.0	45.0
9	42.0	47.0	41.0	45.0	44.0	44.0
10	44.0	45.0	43.0	47.0	43.0	44.0
11	40.0	44.0	44.0	47.0	41.0	43.0
12	41.0	48.0	44.0	45.0	42.0	45.0
13	40.0	44.0	45.0	45.0	43.0	43.0
14	44.0	44.0	43.0	45.0	44.0	42.0
15	41.0	47.0	44.0	44.0	45.0	46.0
16	42.0	45.0	44.0	44.0	41.0	44.0
17	40.0	46.0	43.0	45.0	40.0	44.0
18	42.0	47.0	44.0	44.0	40.0	42.0
19	41.0	44.0	42.0	45.0	42.0	44.0
20	40.0	48.0	45.0	45.0	44.0	45.0
Means (cm)	43.65	45.65	43.65	45.65	42.50	44.25

### ANOVA

Source of Variation	SS	df	MS	F
Reps	32.717	2	16.358	8.3851169
Variety	192.53	1	192.53	98.690647
R x V	26.317	2	13.158	6.7448291
Error	222.4	114	1.9509	
Total	473.97	119		Alpha=0.05

Randomizd Complete Block Design

Exhibit D: Ponderosa

## Frame Width Data (cm.)

Location: Chualar, California, 10/15/98

	Rep 1		Rep 2		Rep 3	
	Ponderosa	Bronco	Ponderosa	Bronco	Ponderosa	Bronco
1	43.0	50.0	44.0	47.0	42.0	46.0
2	41.0	45.0	45.0	45.0	42.0	47.0
3	44.0	45.0	42.0	46.0	42.0	49.0
4	44.0	48.0	43.0	48.0	40.0	48.0
5	43.0	46.0	44.0	46.0	45.0	49.0
6	45.0	48.0	43.0	47.0	44.0	48.0
7	45.0	47.0	40.0	50.0	40.0	47.0
8	44.0	45.0	45.0	47.0	43.0	48.0
9	41.0	48.0	43.0	47.0	41.0	49.0
10	44.0	47.0	43.0	48.0	42.0	49.0
11	41.0	49.0	45.0	46.0	44.0	49.0
12	44.0	51.0	44.0	49.0	45.0	49.0
13	42.0	46.0	41.0	46.0	44.0	46.0
14	43.0	50.0	42.0	50.0	42.0	49.0
15	43.0	48.0	44.0	50.0	44.0	46.0
16	41.0	46.0	43.0	46.0	45.0	48.0
17	44.0	46.0	45.0	47.0	44.0	47.0
18	42.0	46.0	43.0	49.0	43.0	47.0
19	41.0	45.0	44.0	47.0	45.0	48.0
20	42.0	46.0	41.0	48.0	44.0	45.0
Means (cm)	43.05	47.70	43.20	47.45	42.85	47.10

## ANOVA

Source of Variation	SS	df	MS	F
Reps	3.8	2	1.9	0.8278234
Variety	576.41	1	576.41	251.13912
R x V	1.0667	2	0.5333	0.2323715
Error	261.65	114	2.2952	
Total	842.92	119		Alpha=0.05

Randomized Complete Block Design



## Exhibit D : Ponderosa

9900259

### Head Weight Data ( g )

Location: Salinas, California, 10/08/98

	Rep 1		Rep 2		Rep 3	
	Ponderosa	Bronco	Ponderosa	Bronco	Ponderosa	Bronco
1	845.0	630.0	702.0	621.0	759.0	694.0
2	709.0	627.0	733.0	557.0	599.0	599.0
3	825.0	680.0	675.0	675.0	652.0	652.0
4	715.0	687.0	735.0	735.0	679.0	607.0
5	725.0	674.0	799.0	688.0	747.0	685.0
6	691.0	758.0	734.0	734.0	651.0	591.0
7	754.0	697.0	662.0	618.0	700.0	676.0
8	761.0	708.0	743.0	703.0	703.0	703.0
9	754.0	847.0	747.0	747.0	739.0	739.0
10	803.0	688.0	686.0	626.0	686.0	686.0
11	791.0	645.0	669.0	639.0	678.0	635.0
12	817.0	665.0	711.0	611.0	712.0	712.0
13	678.0	707.0	761.0	723.0	766.0	689.0
14	831.0	781.0	682.0	682.0	655.0	655.0
15	746.0	645.0	680.0	645.0	691.0	634.0
16	715.0	692.0	695.0	623.0	715.0	697.0
17	787.0	684.0	746.0	706.0	731.0	731.0
18	732.0	654.0	722.0	705.0	749.0	749.0
19	762.0	679.0	655.0	655.0	762.0	662.0
20	687.0	696.0	593.0	593.0	695.0	695.0
Means (g)	756.40	692.20	703.45	674.55	706.50	664.30

### ANOVA

Source of Variation	SS	df	MS	F
Sample	36963	2	18482	7.7875609
Column	61020	1	61020	25.711836
Interaction	6356.6	2	3178.3	1.3392253
Within	270549	114	2373.2	
Total	374889	119		Alpha=0.05

Randomized Complete Block Design

Exhibit D : Ponderosa

## Head Weight Data ( g )

Location: Chualar, California, 10/15/98

	Rep 1		Rep 2		Rep 3	
	Ponderosa	Bronco	Ponderosa	Bronco	Ponderosa	Bronco
1	936.0	888.0	865.0	738.0	738.0	839.0
2	800.0	807.0	945.0	718.0	817.0	840.0
3	932.0	907.0	916.0	696.0	1,005.0	711.0
4	802.0	876.0	929.0	757.0	931.0	783.0
5	844.0	825.0	848.0	803.0	848.0	799.0
6	784.0	918.0	875.0	782.0	975.0	668.0
7	1,005.0	827.0	760.0	705.0	813.0	750.0
8	808.0	795.0	880.0	724.0	834.0	739.0
9	810.0	868.0	805.0	763.0	706.0	846.0
10	932.0	865.0	872.0	813.0	783.0	757.0
11	796.0	925.0	909.0	729.0	801.0	713.0
12	831.0	847.0	829.0	738.0	988.0	804.0
13	962.0	832.0	876.0	742.0	845.0	750.0
14	932.0	851.0	794.0	790.0	731.0	766.0
15	763.0	830.0	962.0	813.0	768.0	711.0
16	838.0	859.0	882.0	854.0	729.0	713.0
17	1,156.0	828.0	829.0	766.0	738.0	725.0
18	996.0	788.0	901.0	851.0	723.0	704.0
19	931.0	816.0	872.0	776.0	762.0	725.0
20	749.0	770.0	863.0	823.0	692.0	704.0
Means (g)	880.35	846.10	870.60	769.05	811.35	752.35

## ANOVA

Source of Variation	SS	df	MS	F
Sample	132634	2	66317	13.739482
Column	126490	1	126490	26.206081
Interaction	23175	2	11587	2.4006349
Within	550249	114	4826.7	
Total	832548	119		Alpha=0.05

Randomized Complete Block Design

Exhibit D: Ponderosa

## Head Diameter Data (cm)

Location: Salinas, California, 10/08/98

	Rep 1		Rep 2		Rep 3	
	Ponderosa	Bronco	Ponderosa	Bronco	Ponderosa	Bronco
1	15.0	19.0	16.0	18.0	16.0	21.0
2	16.0	17.0	16.0	19.0	16.0	19.0
3	15.0	18.0	17.0	19.0	17.0	22.0
4	15.0	19.0	17.0	21.0	16.0	18.0
5	17.0	20.0	16.0	20.0	16.0	17.0
6	16.0	21.0	16.0	19.0	15.0	19.0
7	17.0	19.0	16.0	19.0	15.0	18.0
8	15.0	19.0	15.0	19.0	16.0	17.0
9	16.0	17.0	17.0	18.0	15.0	19.0
10	15.0	18.0	17.0	17.0	17.0	20.0
11	15.0	19.0	15.0	19.0	17.0	20.0
12	16.0	18.0	15.0	20.0	15.0	19.0
13	16.0	20.0	18.0	21.0	16.0	22.0
14	16.0	20.0	19.0	20.0	18.0	19.0
15	16.0	19.0	17.0	19.0	17.0	19.0
16	17.0	18.0	16.0	21.0	16.0	18.0
17	17.0	17.0	15.0	18.0	16.0	17.0
18	16.0	19.0	15.0	20.0	17.0	19.0
19	18.0	18.0	19.0	17.0	16.0	20.0
20	17.0	17.0	16.0	19.0	16.0	18.0
Means (cm)	16.05	18.60	16.40	19.15	16.15	19.05

## ANOVA

Source of Variation	SS	df	MS	F
Reps	4.1167	2	2.0583	1.5790713
Variety	224.13	1	224.13	171.94616
R x V	0.6167	2	0.3083	0.236541
Error	148.6	114	1.3035	
Total	377.47	119		Alpha=0.05

Randomized Complete Block Design

## Exhibit D: Ponderosa

9900259

### Head Diameter Data (cm.)

Location: Chualar, California, 10/15/98

	Rep 1		Rep 2		Rep 3	
	Ponderosa	Bronco	Ponderosa	Bronco	Ponderosa	Bronco
1	16.0	17.0	15.0	17.0	17.0	16.0
2	16.0	20.0	15.0	17.0	17.0	18.0
3	15.0	18.0	16.0	18.0	16.0	17.0
4	15.0	19.0	16.0	19.0	15.0	18.0
5	15.0	18.0	16.0	20.0	15.0	16.0
6	14.0	17.0	16.0	18.0	16.0	19.0
7	15.0	19.0	15.0	17.0	17.0	21.0
8	17.0	17.0	17.0	19.0	16.0	19.0
9	16.0	18.0	15.0	19.0	15.0	18.0
10	15.0	19.0	16.0	20.0	16.0	17.0
11	16.0	19.0	17.0	19.0	17.0	17.0
12	17.0	20.0	18.0	18.0	15.0	18.0
13	16.0	18.0	15.0	17.0	16.0	16.0
14	15.0	17.0	16.0	16.0	16.0	19.0
15	17.0	18.0	16.0	16.0	15.0	18.0
16	16.0	16.0	17.0	17.0	16.0	17.0
17	17.0	16.0	15.0	18.0	17.0	16.0
18	16.0	15.0	16.0	19.0	18.0	18.0
19	15.0	17.0	15.0	18.0	16.0	17.0
20	16.0	17.0	16.0	17.0	17.0	17.0
Means (cm)	15.75	17.75	15.90	17.95	16.15	17.60

### ANOVA

Source of Variation	SS	df	MS	F
Reps	0.65	2	0.325	0.2773204
Variety	100.83	1	100.83	86.040419
R x V	2.2167	2	1.1083	0.9457335
Error	133.6	114	1.1719	
Total	237.3	119		Alpha=0.05

Randomized Complete Block Design

## Exhibit D : Ponderosa

3900259

### Core Diameter Data (mm.)

Location: Salinas, California, 10/08/98

	Rep 1		Rep 2		Rep 3	
	Ponderosa	Bronco	Ponderosa	Bronco	Ponderosa	Bronco
1	28.0	34.0	28.0	34.0	32.0	37.0
2	32.0	35.0	33.0	36.0	32.0	35.0
3	33.0	34.0	32.0	37.0	30.0	36.0
4	33.0	33.0	33.0	35.0	31.0	35.0
5	32.0	31.0	30.0	34.0	28.0	34.0
6	31.0	32.0	32.0	31.0	32.0	33.0
7	33.0	33.0	35.0	35.0	30.0	31.0
8	32.0	34.0	31.0	37.0	32.0	34.0
9	32.0	31.0	33.0	34.0	33.0	32.0
10	33.0	30.0	33.0	33.0	32.0	35.0
11	30.0	35.0	32.0	36.0	30.0	35.0
12	32.0	37.0	31.0	37.0	34.0	37.0
13	33.0	36.0	30.0	34.0	32.0	34.0
14	33.0	34.0	34.0	33.0	31.0	33.0
15	31.0	33.0	32.0	32.0	32.0	33.0
16	29.0	35.0	31.0	31.0	33.0	34.0
17	31.0	36.0	31.0	34.0	29.0	32.0
18	32.0	34.0	30.0	35.0	33.0	36.0
19	30.0	35.0	32.0	36.0	32.0	35.0
20	32.0	33.0	33.0	34.0	33.0	34.0
Means (mm)	31.60	33.75	31.80	34.40	31.55	34.25

### ANOVA

Source of Variation	SS	df	MS	F
Sample	3.6167	2	1.8083	0.6753481
Column	185.01	1	185.01	69.094021
Interaction	1.7167	2	0.8583	0.3205569
Within	305.25	114	2.6776	
Total	495.59	119		Alpha=0.05

Randomized Complete Block Design

# Exhibit D: Ponderosa

9900259

## Core Diameter Data (mm.)

Location: Chualar, California, 10/15/98

	Rep 1		Rep 2		Rep 3	
	Ponderosa	Bronco	Ponderosa	Bronco	Ponderosa	Bronco
1	31.0	35.0	32.0	37.0	33.0	38.0
2	32.0	39.0	31.0	35.0	30.0	37.0
3	34.0	36.0	30.0	33.0	32.0	36.0
4	32.0	34.0	33.0	39.0	31.0	36.0
5	33.0	37.0	33.0	32.0	34.0	37.0
6	36.0	38.0	31.0	39.0	32.0	39.0
7	34.0	37.0	34.0	40.0	32.0	37.0
8	31.0	36.0	32.0	34.0	33.0	41.0
9	31.0	39.0	33.0	35.0	34.0	39.0
10	33.0	34.0	30.0	37.0	33.0	37.0
11	33.0	33.0	32.0	38.0	32.0	38.0
12	32.0	38.0	32.0	39.0	30.0	38.0
13	33.0	37.0	33.0	39.0	31.0	37.0
14	34.0	36.0	33.0	34.0	35.0	36.0
15	34.0	34.0	35.0	36.0	34.0	34.0
16	29.0	38.0	34.0	37.0	33.0	33.0
17	34.0	37.0	33.0	38.0	32.0	33.0
18	32.0	37.0	30.0	35.0	31.0	34.0
19	31.0	38.0	35.0	34.0	34.0	37.0
20	33.0	36.0	34.0	37.0	33.0	37.0
Means (mm)	32.45	36.70	32.50	36.40	32.60	36.45

## ANOVA

Source of Variation	SS	df	MS	F
Reps	0.3167	2	0.1583	0.0494927
Variety	480	1	480	150.04113
R x V	0.95	2	0.475	0.1484782
Error	364.7	114	3.1991	
Total	845.97	119		Alpha=0.05

Randomized Complete Block Design

# Exhibit D: Ponderosa

9900259

## Core Length Data (mm.)

Location: Salinas, California, 10/08/98

	Rep 1		Rep 2		Rep 3	
	Ponderosa	Bronco	Ponderosa	Bronco	Ponderosa	Bronco
1	33.0	43.0	37.0	52.0	35.0	42.0
2	38.0	47.0	40.0	42.0	41.0	43.0
3	34.0	39.0	37.0	38.0	35.0	47.0
4	32.0	42.0	37.0	43.0	39.0	39.0
5	30.0	48.0	32.0	45.0	37.0	52.0
6	32.0	46.0	36.0	52.0	28.0	44.0
7	40.0	49.0	42.0	37.0	36.0	48.0
8	41.0	40.0	36.0	42.0	35.0	46.0
9	36.0	42.0	35.0	48.0	39.0	47.0
10	37.0	47.0	30.0	46.0	34.0	51.0
11	34.0	41.0	29.0	41.0	33.0	34.0
12	33.0	39.0	37.0	39.0	38.0	37.0
13	31.0	36.0	34.0	42.0	42.0	44.0
14	28.0	39.0	33.0	37.0	37.0	46.0
15	32.0	47.0	36.0	34.0	38.0	48.0
16	35.0	46.0	33.0	49.0	27.0	49.0
17	39.0	44.0	31.0	46.0	29.0	46.0
18	34.0	43.0	39.0	35.0	40.0	43.0
19	31.0	39.0	38.0	53.0	38.0	40.0
20	29.0	34.0	41.0	42.0	31.0	45.0
Means (mm)	33.95	42.55	35.65	43.15	35.60	44.55

## ANOVA

Source of Variation	SS	df	MS	F	P-value
Reps	68.117	2	34.058	1.7935789	0.171
Variety	2091.7	1	2091.7	110.15173	2E-18
R x V	11.45	2	5.725	0.3014898	0.7403
Error	2164.8	114	18.989		
Total	4336	119			

Alpha=0.05

Randomized Complete Block Design

## Exhibit D: Ponderosa

## Core Length Data (mm.)

Location: Chualar, California, 10/15/98

	Rep 1		Rep 2		Rep 3	
	Ponderosa	Bronco	Ponderosa	Bronco	Ponderosa	Bronco
1	29.0	56.0	35.0	62.0	44.0	59.0
2	34.0	48.0	50.0	55.0	48.0	68.0
3	48.0	49.0	41.0	58.0	53.0	57.0
4	40.0	46.0	56.0	64.0	50.0	51.0
5	53.0	45.0	34.0	52.0	39.0	42.0
6	45.0	58.0	37.0	38.0	33.0	49.0
7	41.0	46.0	38.0	54.0	38.0	46.0
8	34.0	49.0	41.0	47.0	42.0	43.0
9	36.0	39.0	52.0	44.0	46.0	58.0
10	35.0	67.0	47.0	48.0	47.0	63.0
11	39.0	61.0	49.0	44.0	43.0	67.0
12	44.0	55.0	50.0	64.0	49.0	39.0
13	43.0	61.0	50.0	55.0	39.0	58.0
14	49.0	63.0	46.0	63.0	46.0	59.0
15	50.0	67.0	38.0	49.0	43.0	51.0
16	46.0	55.0	42.0	47.0	37.0	49.0
17	51.0	49.0	47.0	56.0	32.0	46.0
18	53.0	43.0	50.0	65.0	56.0	65.0
19	57.0	59.0	36.0	46.0	51.0	49.0
20	41.0	55.0	39.0	56.0	45.0	44.0
Means (mm)	43.40	53.55	43.90	53.35	44.05	53.15

## ANOVA

Source of Variation	SS	df	MS	F
Reps	0.5167	2	0.2583	0.0045171
Variety	2745.6	1	2745.6	48.009418
R x V	5.7167	2	2.8583	0.0499801
Error	6519.6	114	57.189	
Total	9271.5	119		Alpha=0.05

Randomized Complete Block Design



U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

1. NAME OF APPLICANT(S)

RAD  
4/11/05 Enza Zaden Beheer B.V. RAD  
4/25/052. TEMPORARY DESIGNATION  
OR EXPERIMENTAL NUMBER

Exp. 5007

3. VARIETY NAME

Ponderosa

4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)

1352 Burton Avenue  
Salinas, California 93901

5. TELEPHONE (include area code)

(831) 754-2300

6. FAX (include area code)

(831) 754-2975

7. PVPO NUMBER

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain.

☒ YES☐ NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?

☒ YES☐ NO

If no, give name of country

10. Is the applicant the original owner?

☒ YES☐ NO

If no, please answer one of the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

☐ YES☐ NO

If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?

☐ YES☐ NO

If no, give name of country

11. Additional explanation on ownership (if needed, use reverse for extra space):

**PLEASE NOTE:**

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

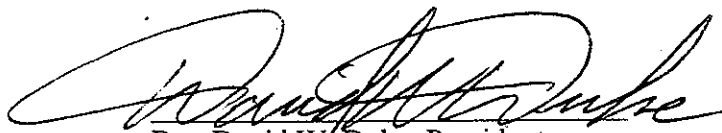
To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

**ASSIGNMENT OF U.S. PLANT VARIETY  
PROTECTION CERTIFICATE APPLICATIONS**

Effective March 30, 2000, COASTAL SEEDS, INC., A CALIFORNIA CORPORATION, for good and valuable consideration, receipt of which is hereby acknowledged, does hereby transfer, assign and deliver to ENZA ZADEN DE ENKHUIZER ZAADHANDEL B.V., A DUTCH CORPORATION, the Plant Variety Protection Certificate Applications listed on Exhibit "A" attached hereto and incorporated by reference.

Dated: May 10, 2000

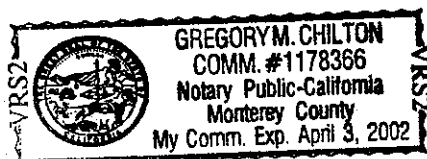
Coastal Seeds, Inc.,  
A California Corporation

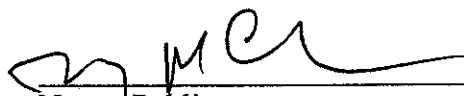
  
By: David W. Duke, President

State of California            )  
  )ss.  
County of Monterey         )

On this 10th day of May, in the year 2000, before me, the undersigned Notary Public in and for the State of California, personally appeared David w. Duke, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



  
Notary Public

**EXHIBIT "A"****ASSIGNMENT PLANT VARIETY  
APPLIED PROTECTION CERTIFICATES**

1. PONDEROSA - Application No.: 9900259
2. SILVERADO - Application No.: 9900254
3. MARGARITA - Application No.: 9700075
4. MARDI GRAS - Application No.: 9800210
5. GLADIATOR - Application No.: 9800119
6. HEARTS DELIGHT - Application 9900066
7. MEDALLION - Application 9800120

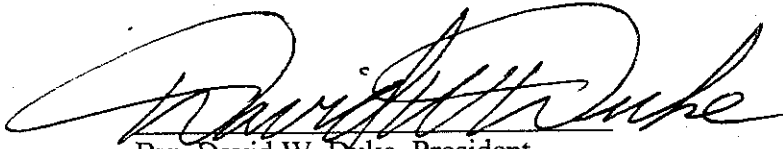


ASSIGNMENT OF U.S. PLANT VARIETY  
PROTECTION CERTIFICATE

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Dated: May 10, 2000

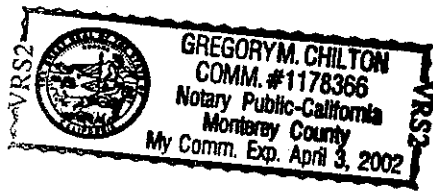
Coastal Seeds, Inc.,  
A California Corporation

  
By: David W. Duke, President

State of California                    )  
  )ss.  
County of Monterey                    )

On this 10th day of May, in the year 2000, before me, the undersigned Notary Public in and for the State of California, personally appeared David w. Duke, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

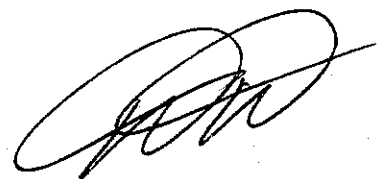
WITNESS my hand and official seal.



  
Notary Public

**EXHIBIT "A"****ASSIGNMENT PLANT VARIETY  
PROTECTION CERTIFICATES**

1. BRONCO - Certificate No.: 9500116
2. COWBOY - Certificate No.: 9600278
3. DIAMOND - Certificate No.: 9500051
4. WRANGLER - Certificate No.: 9600279

A handwritten signature in black ink, consisting of a large, stylized 'P' followed by a series of loops and a final flourish.



ENZA ZADEN RESEARCH USA, INC.

Commercial Office:  
7 Harris Place  
Salinas, CA 93901

Tel: 831.754.2300  
Fax: 831.754.2975

Research Office:  
525 Lucy Brown Lane, PO Box 866  
San Juan Bautista, CA 95045

Tel: 831.623.4644  
Fax: 831.623.1746

To: Robin Davis  
PVP Office  
NAL Building, Room 400  
10301 Baltimore Avenue  
Beltsville, MD 20705

Date: May 4, 2005

Subject: payments

---

Dear Robin Davis,

I've enclosed two checks:

Check #6618, \$190.- (5x\$38.-)

To change applicants name from Enza Zaden De Enkhuizer Zaadhandel B.V. to Enza Zaden Beheer B.V.  
for the following numbers:

- 1) PVP# 9900259 (Ponderosa)
- 2) PVP#200100226 (Coastal Star)
- 3) PVP#200200046 (Durango)
- 4) PVP#200300168 (Telluride)
- 5) Added: PVP#9900254 (Silverado)

Addresses, etc. remain the same.

Check #6577, \$432.-

payment certificate pvp# 9900259. I thought that we already sent this check but that was not the case.

If you have any questions, please do not hesitate to contact us.

Sincerely,



Aernoudt Aardse  
Enza Zaden Research USA

Office: 831-623-4644  
Fax: 831-623-1746  
Mobile: 831-710-0605  
Email: [a.aardse@coastalseeds.com](mailto:a.aardse@coastalseeds.com)